

COLORADO DISCHARGE PERMIT SYSTEM (CDPS)
FACT SHEET TO MODIFICATION 2
PERMIT NUMBER CO0037311
EAGLE RIVER WATER AND SANITATION DISTRICT, EDWARDS WWTF

EAGLE COUNTY

TABLE OF CONTENTS

I. TYPE OF PERMIT.....	1
II. FACILITY INFORMATION	1
III. PURPOSE OF MODIFICATION	1
IV. CHANGES TO PERMIT	1
V. PUBLIC NOTICE COMMENTS.....	2

I. TYPE OF PERMIT

- A. Permit Type:** Minor Amendment
B. Discharge To: Surface Water

II. FACILITY INFORMATION

- A. SIC Code:** 4952 Sewerage Systems
- B. Facility Classification:** Class A per Section 100.6.2 of the Water and Wastewater Facility Operator Certification Requirements
- C. Facility Location:** 3101 Lake Creek Village Dr., Edwards, CO 81632, Latitude: 39.656081N, Longitude: 106.609131 W
- D. Permitted Features:** 001A following disinfection and prior to mixing with the receiving stream. 39° 39' 16" latitude N, 106° 37' 37" longitude W

III. PURPOSE OF MODIFICATION

The Division received a permit modification request form from the facility on October 17, 2012. The letter requested a modification for the total inorganic nitrogen limit to 36 mg/L per Division authorization in its letter dated July 9, 2012

IV. CHANGES TO PERMIT

1. The Division calculated the inorganic nitrogen limitation (NIL) for the facility modeling together with both Avon WWTF and Eagle WWTF. However, a letter to the Division from the facility indicated that the Eagle WWTF does not withdraw its drinking water from the Eagle River and therefore, its discharge should have been excluded from NIL calculations. The Division verified that the drinking water source for the Town of Eagle is Brush Creek. Therefore, the Division concluded that the exclusion of Eagle WWTF discharge from the modeling is appropriate. The Division conducted a mass-balance equation (not setting a fixed level) which resulted in a limit of 32 mg/l for TIN for the Avon facility and accordingly a limit of 41.6 mg/l for TIN for the Edwards facility, after the Eagle WWTF was also removed from the modeling. After discussions with the facility's consultants, the Division agreed to accommodate the District's request for pollutant trading and allocated a TIN limitation of 36 mg/l for each facility. At this time, Division believes that these limits are protective considering the Eagle River is a gaining stream.

Parameter	M _{WQS}	Q _A	M _A	Q _R	M _R	Q _{LC}	M _{LC}	Q _E	M _E
TIN	10	6.7	36	26	0.57	7.99	0.57	4.6	36

where,

M_E = total assimilative capacity for the Edwards facility, and a portion of the Eagle WWTF

Q_T = total downstream flow including the Eagle River and Lake Creek low flows and the Edwards and Avon facilities

M_{WQS} = water quality standard

Q_A (cfs)= design flow of the Avon facility

M_A = assimilative capacity allocated to Avon above

Q_R = river low flow

M_R = ambient water quality of the river

Q_{LC} = Lake Creek low flow

M_{LC} = Lake Creek ambient quality (set equal to the ambient river quality)

Q_E = design flow of the Edwards facility

It should be noted that the Division will maintain the compliance schedule for the facility since the limit above is more stringent than previous permit limit.

Kenan Diker
November 1, 2012

V. PUBLIC NOTICE COMMENTS

The public notice period was from November 16, 2012 to December 17, 2012. No comments were received during the public notice period.

Kenan Diker
December 17, 2012